

Air Publication 121.

# REGULATIONS

FOR ADMISSION TO THE

## ROYAL AIR FORCE (CADET) COLLEGE, CRANWELL.

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Issued by Command of the Air Council,

W F Nicholson

AIR MINISTRY,

*August, 1923.*

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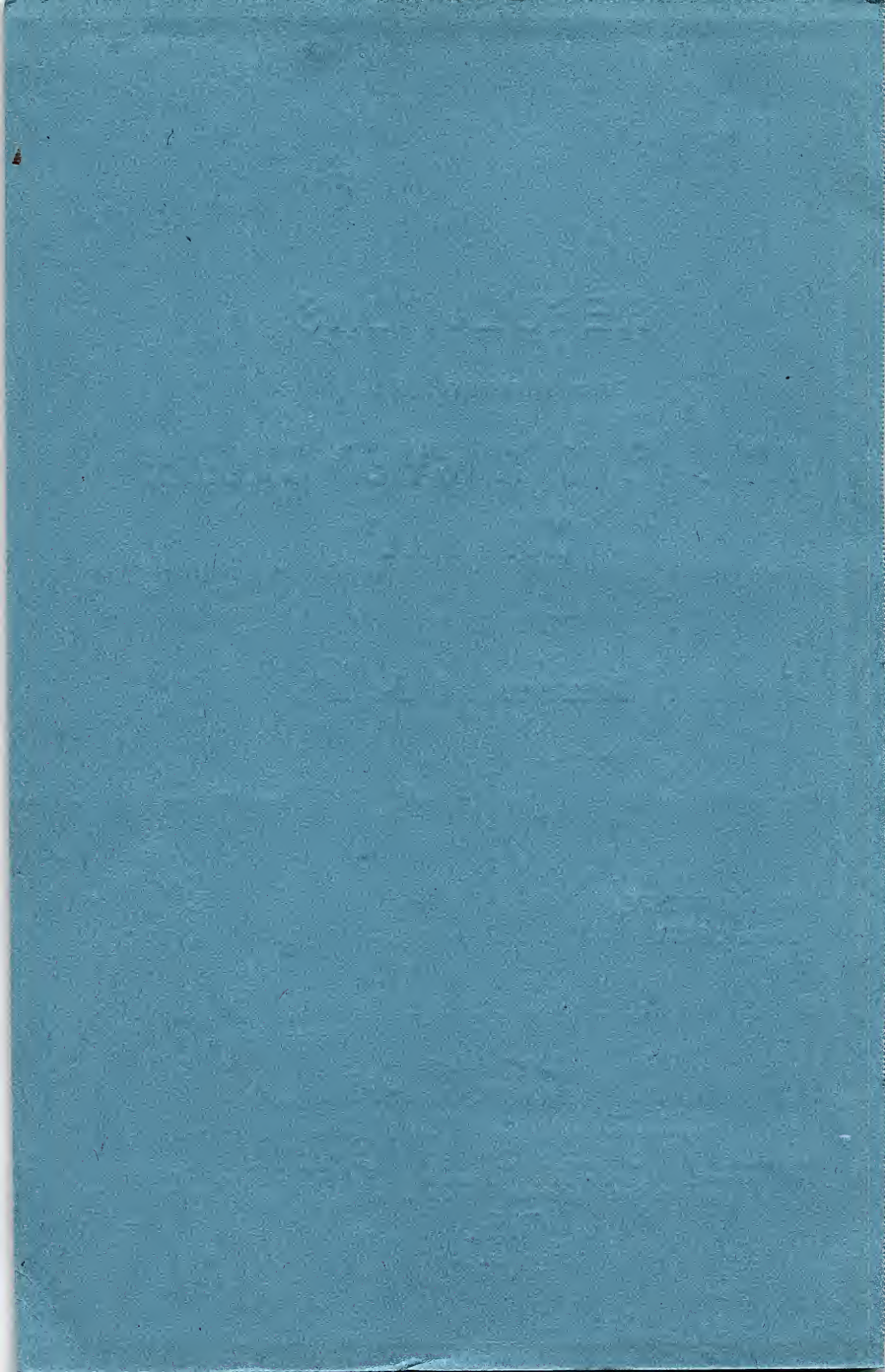
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## TABLE OF CONTENTS.

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- Section I.—Object of Instruction.
- Section II.—Regulations for Admission.
- Section III.—Royal Air Force Entrance Examination.
- Section IV.—Prize Cadetships.
- Section V.—Medical Examination.
- Section VI.—Preliminary Medical Examination.
- Section VII.—King's Cadets and Honorary King's Cadets.
- Section VIII.—Nomination.
- Section IX.—Terms of Payment.
- Section X.—Government and Organisation.
- Section XI.—Discipline.
- Section XII.—Course of Instruction.
- Appendix I.—Fees and Emoluments.
- Appendix II.—Syllabus of Subjects for Entrance Examination.
- Appendix III.—Syllabus of Instruction at Royal Air Force (Cadet) College.
- Appendix IV.—List of schools whose Headmasters are permitted to recommend Candidates for Nomination by the Air Council.
- Appendix V.—Standard of Medical Fitness.
- Appendix VI.—The Sword of Honour.
- The Victoria League Scholarship.
- The Wakefield Scholarship.
- The Abdy Gerrard Fellowes Prize.
- The R. M. Groves Memorial Prize.
- The "Salting Benefaction" Grants.
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**REGULATIONS FOR  
ADMISSION TO THE ROYAL  
AIR FORCE (CADET)  
COLLEGE, CRANWELL.**

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**I.**

1. *Object of instruction.*—The Royal Air Force (Cadet) College is maintained to afford a special education to candidates for commissions in the Royal Air Force. It is intended exclusively for those who desire to make the Royal Air Force their permanent profession in life.

**II.**

**Regulations for Admission.**

2. *General conditions.*—A candidate must be unmarried; he must also be a British subject, and the son of British subjects, and of pure European descent. In doubt the burden of clear proof of nationality or descent will rest upon the candidate, or upon the parents or guardians of a candidate who is a minor. No candidate will be accepted unless, in the opinion of the Air Council, he is in all respects suitable to hold a commission in the Royal Air Force.

3. *Methods of admission.*—Admission to the College will be granted to:—

- (i) Successful competitors in the Royal Air Force entrance examination. (*See* section III.)
- (ii) To King's Cadets and Honorary King's Cadets. (*See* section VII.)
- (iii) To candidates specially nominated by the Air Council (*See* section VIII.)

4. *Numbers.*—The number of cadets admitted to the College will vary according to the requirements of the service. Notice will be given from time to time (usually about three months



before the examination) of the number of vacancies open for competition.

5. *Entrance examination.*—The Royal Air Force entrance examination will be conducted by the Civil Service Commissioners as specified in section III. The written examination will be held in London or at other centres in the United Kingdom as the Commissioners may appoint. The fee for the examination in London will be 4*l.* At any other centre the fee will be 5*l.* in addition to a local fee payable sometimes to college and school authorities. The laboratory tests in mathematics and the oral tests in modern languages will be held in London only.

6. *Age limit.*—The limits of age for admission to the College will be from 17½ to 19 years (the half-year being reckoned by calendar months). The candidate must have attained the age of 17½ and not have attained the age of 19 on the 1st July following for the summer examination, and on 1st January following for the winter examination. In exceptional circumstances the upper age limit may be extended at the discretion of the Air Council to a maximum extent of three months. Cadets thus entered will not be eligible for Prize Cadetships.

### III.

#### Entrance Examinations.

7. *Conditions of entrance.*—Examinations, of which due notice will be given, will be held twice annually and will commence on the second Tuesday in June and the third Tuesday in November. Every candidate must obtain the necessary printed form of application for admission to the examination, which will be forwarded on application by letter to the Secretary, Civil Service Commission, Burlington Gardens, London, W. 1. This form must be filled up in the candidate's own handwriting, and should be returned to the Secretary, Civil Service Commission, as early as possible. Forms are usually available about three months before the date of the examination. Dates after which it may not be possible for the Civil Service Commissioners to accept forms of application will be announced by them in connection with each examination that is held. No question as to delay or loss in the post of any such application form can be entertained. Candidates who delay their application until the last few days do so at their own risk. Any candidate who has filled up and returned the printed application form but

has not received an acknowledgment of it within four complete days should at once write to the Secretary, Civil Service Commission, Burlington Gardens, London, W. 1. Failure to comply with these provisions will be liable to deprive the candidate of any claim to consideration.

8. A candidate may enter for the Royal Air Force (Cadet) College, the Royal Military College, the Royal Military Academy for a cadetship in the Royal Navy (special entry) or for a first appointment in the Royal Marines, or for a Paymaster Cadetship in the Royal Navy at the same examination, but if he does so, he must take up the subjects as set forth for each of the particular colleges or cadetships desired and must be within the age limits prescribed for such college or cadetship. Each candidate must state, before the examination on a form supplied by the Civil Service Commissioners, for what college or colleges he intends to compete. (*See para. 33.*) If a candidate intends to compete for more than one college, he may say that if he is not among the first (so many) successful competitors in the examination for the college or cadetship he puts first on his list, he desires to be accepted for the second.

*e.g.*, "Royal Military Academy - - - 1

"Royal Air Force (Cadet) College - - 2,

but if I am not within the first 20 competitors for the Royal Military Academy, I desire to be accepted for the Royal Air Force (Cadet) College."

It may, however, not always be possible to give effect to such conditional preferences. A candidate will not be permitted to make any change in his selection after the examination has begun. A candidate who enters also for the Royal Military Academy or for a cadetship in the Royal Navy (special entry) may not offer General Science for the Royal Air Force (Cadet) College.

9. *Evidence of age and character.*—A candidate will be required to satisfy the Civil Service Commissioners that he is within the prescribed limits of age, and is eligible in respect of character. Every candidate should be prepared to furnish the Civil Service Commissioners, as soon as called upon to do so (*i.e.*, immediately after he has sent in the application form), with an extract from the register of his birth, or if this cannot be obtained, a certificate of his baptism or other documentary evidence accompanied by a statutory declaration made by one of his parents or guardians before a magistrate, giving the exact date of birth.

10. *Subjects for examination for entrance.*—The subjects for examination (*see* Appendix II.) and the maximum number of marks obtainable for such subjects are as follow :—

*Class 1.—Obligatory :—* Marks.

- |  |       |
|--|-------|
| 1. English - - - - -   | 2,000 |
| 2. English History and Geography -   | 2,000 |
| 3. Mathematics A (Elementary) -  | 2,000 |
| 4. One of the following modern languages.* French, German, Spanish, Russian, Italian, Arabic, Hindustani - - - - - | 2,000 |

*Class 2.—Optional :—*

- |   |       |
|---|-------|
| 1. Latin - - - - -  | 2,000 |
| 2. Greek - - - - -  | 2,000 |
| 3. One of the seven languages mentioned above other than that taken as obligatory - - - - - | 2,000 |
| 4. Mathematics B (Intermediate) -   | 2,000 |
| 5. Mathematics C (Higher) - - -   | 2,000 |
| 6. Either General Science or Physics and Chemistry - - - - -                                | 2,000 |

All subjects of class 1 must be taken up. Not more than three of the subjects of class 2 may be taken up, and if one of these subjects is a modern language, it must be different from the modern language selected in class 1. To qualify in the examination, candidates will be required to obtain such an aggregate of marks in the examination as a whole as to satisfy the Civil Service Commissioners. The qualification gained by a candidate at one entrance examination does not exempt him from the necessity of qualifying for competitive purposes at subsequent entrance examinations. In addition to the above-named subjects, candidates may take up Freehand Drawing, to which 400 marks will be allotted.

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\* Other modern languages will be allowed if approved by the Civil Service Commissioners. Notice must be sent in writing by a candidate who wishes to present such a language to the Civil Service Commissioners at least six months before the date of the examination, the candidate will then be informed whether the language is approved.



11. Candidates who qualify for Certificate "A" will be entitled to from 300 to 600 additional marks.

12. The marks gained by each candidate will be added up, and if he qualifies as in para. 10, the resulting total will determine the place of the candidate in the competitive list.

#### IV.

##### Prize Cadetships.\*

13. *How awarded.*—A certain number of prize cadetships will be awarded to successful competitors in order of merit at each examination, for admission to the Royal Air Force (Cadet) College. The number to be awarded will be announced periodically by the Air Council.

14. *Emoluments.*—Certain emoluments and financial benefits will be attached to a prize cadetship. (See Appendix I.)

15. *Cadets ineligible.*—King's Cadets will not be eligible to enjoy the emoluments attached to a prize cadetship as such but may be granted the titular distinction.

16. *Resignation of emoluments.*—While no inquiries will be made into the means of parents of candidates, prize cadetships are designed essentially to give assistance to those who stand in need of the emoluments attached to them; parents or guardians of candidates will therefore be invited to resign the emoluments of a prize cadetship, should they be in a position to do so, retaining the titular distinction for their sons or wards. The emoluments so resigned will be given to the next candidate on the list who is less fortunately circumstanced. No distinction will be made in the list between those who do, or do not, enjoy the emoluments as stated above.

17. A prize cadetship and all future pecuniary advantages attached thereto will be forfeited by a cadet who for disciplinary reasons, or for unsatisfactory progress, drops into a class lower than that in which he originally entered the College. A prize cadet who, as the result of examinations, occupies at the end of his first year a low position in the order of merit will be specially reported on by the commandant, who will state definitely

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\* The continuance of the offer of these prize cadetships is not guaranteed. The conditions may also be altered from time to time.

whether he recommends that the cadet shall or shall not retain the emoluments attaching to his prize cadetship for his remaining year. The final decision as to retention or forfeiture will remain with the Air Council.

## V.

### Medical Examination.

18. *Medical examination.*—Each candidate will be examined by a medical board and will not be accepted unless he is pronounced physically fit for His Majesty's Service. The medical examination will take place in London and provincial candidates are warned that it will be necessary for them to attend in London for the medical examination. The examination will be conducted by a special board of medical officers detailed by the Director of Medical Services, Royal Air Force. The attention of the board will be directed in particular to ascertaining the suitability of the candidate from a medical standpoint for military aviation. All candidates must undergo the Royal Air Force medical examination including those who have been passed fit in connection with a previous examination. Candidates are advised that neglect of their physical welfare whilst studying for the entrance examination may prejudice their chances of passing the medical examination.

19. The medical examination will be conducted at or about the time of the competitive examination. Candidates applying to attend the latter will receive notice regarding the time and place of the medical examination from the Secretary, Air Ministry.

20. The examination will be conducted along the following lines :—

- (i) Interrogatory examination.
- (ii) Routine medical and surgical examination.
- (iii) Examination of eyes.
- (iv) Examination of ears, nose, and throat.
- (v) Special examination in regard to aptitude for flying.

21. The Board has power to—

- (i) Pass a candidate medically fit.
- (ii) To report a candidate as unfit, but where the cause of unfitness can be cured by suitable treatment; to recommend that, if successful in the competitive examination, he be re-examined by the Royal Air Force medical board after such treatment.
- (iii) To reject a candidate as medically unfit.

22. The decision of the board will be final for candidates rejected under paragraph 20, sub-heads (i), (ii), (iv), and (v). Candidates rejected under paragraph 20, sub-head (iii) only may, if they so desire, be allowed to present themselves for re-examination by an appeal medical board, which will assemble shortly after the original board. Notification that a candidate will appeal must be made by the parent or guardian to the Secretary, Air Ministry, accompanied by a fee of 4*l.* 4*s.* within seven days of the result of the competitive examination. (Cheques, &c., should be made payable to the Secretary, Air Ministry.) In the event of the appeal proving successful the fee will be returned. The decision of the original medical board or appeal board, as the case may be, will be final as regards the medical fitness of the candidate for admission to the Royal Air Force College in respect of each competitive examination. A candidate will not, however, be debarred from presenting himself, if eligible, in other respects at a subsequent entrance examination, should he desire to do so. If again successful, his admission will depend upon the report of the medical board or boards that will again examine him.

23. Parents and guardians are strongly recommended, in order to lessen the chance of subsequent disappointment, to have their sons or wards examined by a medical practitioner, or by the R.A.F. Preliminary Medical Board (*vide* section VI.), previous to their becoming candidates for a commission in the Royal Air Force. Details as to the standard of medical fitness demanded are given in Appendix V.

## SECTION VI.

### Preliminary Medical Examination.

24. A candidate may undergo a preliminary examination by a Royal Air Force medical board not more than two years before he competes or presents himself for nomination under the following conditions:—

- (i) Applications must be addressed to the Secretary, Air Ministry, accompanied by a fee of three guineas. Cheques should be made payable to the Secretary, Air Ministry.
- (ii) The examination will take place in London, and the candidate will be notified of the time and place at which he is to attend. The board will notify him of the result of the examination.

- (iii) A candidate must pay his travelling expenses.
- (iv) A candidate found unfit by this preliminary medical board is not bound to accept its finding, but may at his own risk continue his studies, attend the Royal Air Force entrance examination, and submit himself for medical examination by the ordinary medical board.
- (v) The opinion of the preliminary medical board is solely for the candidate's information and it must be distinctly understood that when favourable it gives him no claim to be accepted as physically fit when he presents himself as a candidate before the ordinary or appeal medical board.

## VII.

### King's Cadets and Honorary King's Cadets.

25. *King's Cadets*.—King's Cadets will be appointed by the Secretary of State for Air from sons of officers of the Royal Air Force, Army, Royal Navy, Royal Marines and permanent military forces of the Overseas Dominions, or irregular troops when acting with, or in support of, the regular forces in the field, who have fallen in action, or have died of wounds received in action, or of disease contracted on service abroad, and who have left their families in reduced circumstances. King's cadets will be granted an educational allowance and the emoluments particularised in Appendix I. Candidates, who, on account of their age, are unable to receive the educational allowance, though eligible in other respects to be nominated to King's cadetships, will, after passing the necessary examination (*see* paragraph 28), be entitled to the other emoluments particularised in Appendix I. Sons of officers who have retired by sale of their commissions, or who have surrendered their half-pay, are ineligible for King's cadetships.

26. *Honorary King's Cadets*.—A limited number of Honorary King's Cadets may be nominated annually by the Secretary of State for Air; such candidates are appointed from—

- (i) Sons of officers of the Royal Air Force, British Army, Royal Navy, or Royal Marines, who were killed in action, or have died of wounds received in action within six months of such wounds having been received, or from illness brought on by fatigue, privation

or exposure incident to active operations in the field before an enemy, within six months after their having first been certified to be ill.

- (ii) The sons of officers of the Royal Air Force, British Army, Royal Navy, or Royal Marines, who have attained the substantive rank of Squadron Leader in the Royal Air Force, or relative rank in other services, and have performed long and distinguished service.

An Honorary King's cadetship will not carry with it any pecuniary advantage as a King's cadetship does, and no declaration as to the circumstances of the deceased officer's family is required. Sons of officers who have retired by the sale of their commissions or who have surrendered their half-pay are ineligible for honorary King's cadetships.

27. *Applications and medical examination.*—An application for a King's cadetship or an Honorary King's cadetship should be addressed to the Secretary, Air Ministry. The application should be accompanied by an extract from the register of the candidate's birth. Before a candidate can be accepted for a King's cadetship he must appear before the Royal Air Force medical board, but the fact of being then passed medically fit is no guarantee that he will be successful in the medical examination for entry to the College.

\*28. *Age and entrance examination.*—King's Cadets and Honorary King's Cadets will be required, before admission to the College, to qualify at the Royal Air Force entrance examination as laid down in paragraph 10, and to furnish satisfactory evidence that they are eligible with regard to age and character.

## VIII.

### Nominations.

29. *Candidates nominated by the Air Council.*—A very limited number of cadetships at the Royal Air Force (Cadet) College will occasionally be filled by suitable candidates specially nominated by the Air Council. Recommendations for nomination should be submitted by the headmaster of the candidate's school, to the Secretary, Air Ministry, from whom forms for these applications may be obtained.

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\* The candidate qualifies in the entrance examination, his admission to the College will not depend on his place in the competitive list.



30. Recommendations will be accepted from headmasters of schools approved for that purpose by the Air Council (see Appendix IV.). To be approved by the Air Council a school must :—

- (i) Be, at least once in five years, inspected and reported upon by one of the educational bodies mentioned in Appendix IV.
- (ii) Have a three years' curriculum and show that at least 50 per cent. of the pupils remain three years at the school. No school will be approved unless its curriculum in all the subjects of the Royal Air Force entrance examination is satisfactorily reported on by the inspecting body.
- (iii) Maintain an efficient contingent of the Officers Training Corps.

A school which desires to be approved by the Air Council for the purpose of recommending candidates for nomination should apply to the Secretary, Air Ministry, for instructions how to act. A school which is on the list of approved schools and wishes to continue to be shown on the list should, before the period of five years has elapsed since the last inspection, apply to one of the bodies named in Appendix IV. to be re-inspected. Failure to comply with the above rules will render the school liable to be removed from the list of approved schools.

31. Headmasters of approved schools will be required to submit to the Secretary, Air Ministry, on the 1st June and 1st November, a list of the candidates, in order of merit (on A.M. Form 536), whom they recommend for nomination by the Council for the June and November entrance examinations respectively.

32. The following documents for each candidate will accompany the list :—

- (i) Form of particulars (A.M. Form 537) signed by the candidate and his parent or guardian, with a birth certificate attached.
- (ii) A certificate of efficiency in the Officers Training Corps (A.M. Form 539).
- (iii) Recommendation of the headmaster (on A.M. Form 538).

33. All candidates for nomination will sit for the current Civil Service Commission examination for admission to the Royal Air Force unless prevented from doing so on account of sickness or other sufficient reason. Candidates who have obtained

recommendations for nomination by the Army Council or Air Council are reminded that a recommendation can be given for one college only, and that college must be put down as the candidate's first preference.

34. To be eligible for nomination by the Council to a cadetship at the Royal Air Force (Cadet) College, a candidate, besides complying with the conditions laid down in paragraph 2, must—

- (i) Be recommended by the headmaster of his school as suitable in all respects for admission to the Royal Air Force (Cadet) College, with a view to his obtaining eventually a commission in the Royal Air Force.
- (ii) Have attended continuously for at least three school years at one or more approved schools.
- (iii) Have been in residence at his school to the end of the school term immediately preceding his nomination.
- (iv) Be within the limits of age laid down in paragraph 6.
- (v) Be an "efficient" member of the school contingent of the Officers Training Corps.

35. An officer, midshipman or naval cadet between the ages laid down in paragraph 6 may be recommended by the Lords Commissioners of the Admiralty for nomination to a cadetship by the Air Council. A candidate who is no longer serving as above may be recommended, provided that he ceased so to serve within six months of the governing date of the nomination. The upper age limit for such candidate will be 21 years.

36. A candidate recommended for nomination must be prepared to present himself for interview at the Air Ministry on a date notified by the Air Council.

37. He must also be prepared to present himself at a Royal Air Force medical board on a date to be notified by the Air Council.

38. Such nominations will be published by the Air Council shortly after the result of each entrance examination is declared.

39. A limited number of cadetships will be filled by candidates recommended to the Air Council by the Secretary of State for the Colonies, the Governor-General of Canada, the Commonwealth of Australia, New Zealand, and the Union of South Africa, and the Governor of Newfoundland. The names will be furnished by recommending authorities to the Air Council by the dates named in para. 31.

The obligation of these candidates to sit for the competitive examination in England will be waived and arrangements will be made by the Colony or Dominion for the medical examination to be held in the Colony or Dominion if required.

Intending Dominion candidates for nomination should apply direct to the Governor-General of the Dominion concerned.

The possibility of granting special facilities for Dominion candidates for cadetships is at present under consideration.

## IX.

### Terms of Payment.

40. The amount of the yearly fees payable by the parent or guardian of a cadet about to enter the college is given in Appendix I.; payment should be made half-yearly in advance, not later than 7 days before the commencement of a term, direct to the Commandant, Royal Air Force (Cadet) College, Cranwell. In the event of non-payment a cadet will not be permitted to enter or return to the Royal Air Force (Cadet) College except under the specific instructions of the Air Ministry. Claims for reduced fees under the regulations set out in Appendix I. should be sent to the Secretary, Air Ministry, and the accountant at Cranwell should be notified at the same time that a claim for reduced fees has been lodged. The contributions payable towards the expense of uniform and books and the method of payment are also set out in Appendix I.

## X.

### Government and Organisation.

41. *Commandant.*—The Royal Air Force (Cadet) College will be under the control of an air commodore, styled Commandant, who will report to the Secretary, Air Ministry, on all matters concerning the College.

42. The organisation consists of a Headquarters and a Cadets Wing. The Headquarters includes the personnel required for the instruction of cadets.

43. The Cadets Wing will be divided into two squadrons each of two flights, containing a proportion of cadets from each term. Senior cadets will be chosen to fill the non-commissioned ranks. Squadron leaders and flight lieutenants will be selected from amongst the officer instructors.

## XI.

### Discipline.

44. *Rules.*—Cadets are subject to such rules and regulations as are, or may be, from time to time established for the maintenance of good order and discipline at the College.

45. *Rustication, &c., by Commandant.*—The Commandant has the power of rustication, and also of sentencing a cadet for misconduct to drop a term or to lose places in the list of successful candidates for commissions. The circumstances will be reported by the Commandant to the Secretary, Air Ministry. A rusticated cadet will, on his return to the College, be regarded as the junior cadet of his flight.

46. *Removal or expulsion.*—When more serious notice, is required cadets are liable, on the report of the Commandant to the Secretary, Air Ministry, to be either removed or expelled.

47. *Expulsion.*—The name of any cadet expelled will be recorded at the Air Ministry and will be made known to the Secretary of State for War, the First Lord of the Admiralty, the Secretary of State for India, and the Civil Service Commissioners, in order to prevent the admission of the cadet into His Majesty's Naval or Military Service, or into the Home, Colonial or Indian Civil Service.

48. *Removal.*—A cadet is liable to be removed from the Royal Air Force (Cadet) College—

- (i) For moral or physical unfitness.
- (ii) For unsatisfactory progress in his studies or physical exercises.
- (iii) If reported by the Commandant as not likely to become an efficient officer.
- (iv) If reported by the Commandant as unlikely to become a safe and efficient pilot.
- (v) If the sums due under Appendix 1 in respect of his residence at the College are not paid.

49. *Saluting.*—Cadets will salute all officers in uniform and those whom they know to be officers when not in uniform. They will also salute the civilian professors and instructors of the College.

50. *Powers of officers commanding squadrons.*—Officers commanding squadrons have certain powers of punishment delegated to them, and will report to the Commandant, through the Adjutant, all punishments which they may inflict.

51. *Private instruction prohibited.*—Officers, chief instructors, professors, and instructors are not permitted to give private instruction on payment to cadets, either during the vacation or at any other time.

52. *Presents forbidden.*—No person belonging to the College is to receive a present from any cadet, or from the relations or friends of any cadet. Any non-commissioned officer, or employee, who accepts a present is liable to be removed or discharged, and the cadet giving it to be punished for disobedience of orders.

53. *Uniform.*—Cadets are required to appear in uniform at all times except when on leave or when otherwise exempted by the Commandant.

## XII.

### Course of Instruction.

54. *Course of instruction.*—The normal length of the course of instruction will be two years, each year being divided into two terms. The length of the course may, however, be altered according to the requirements of the service.

55. Examinations will be held periodically and cadets will be awarded marks by their instructors for their work during the term. The aggregate marks will determine the cadet's place in order of merit when passing out for appointment to a commission. A cadet who fails to obtain the qualifying minimum in an examination will drop a term, and will be warned that if he fails to qualify in the next examination he will be liable to be removed from the College.\*

56. The subjects which form the course of studies, with the marks assigned to them, which are liable to alteration from time to time, are given in the following table :—

Subject.	1st Year.		2nd Year.		Total.
	Exam.	Term.	Exam.	Term.	
1. Educational subjects :—					
(a) English language and literature.	300	200	—	—	500
(b) General history - -	—	—	300	300	600
Total - -	300	200	300	300	1,100
2. Aeronautical Science :—					
(a) Practical mathematics and graphics.	300	} 800	}	—	2,000
(b) Applied mechanics and elements of drawing.	300				
(c) General science - -	300				
(d) Theory of flight - -	200				
(e) Voluntary advanced paper, mathematics and science.	100	—	—	—	—
Total - -	1,200	800	—	—	2,000

\* The present qualifying minimum is 55 %.



Subjects.	1st Year.		2nd Year.		Total.
	Exam.	Term.	Exam.	Term.	
3. Aeronautical engineering :—					
(a) Engines - - - -	300	200	500	200	1,200
(b) Rigging - - - -	200	150	300	150	800
Total - - -	500	350	800	350	2,000
4. General service subjects :—					
(a) History and organisation of the R.A.F.	300	—	—	—	300
(b) Organisation of Army -	—	—	150	—	150
(c) Organisation of Navy -	—	—	150	—	150
(d) Law and administration -	—	—	400	—	400
(e) Sanitation and hygiene -	200	—	150	—	150
(f) Armament - - - -	150	150	250	250	800
(g) Meteorology - - - -	—	—	200	50	250
(h) W/T and Morse - - -	100	—	150	150	400
Total - - -	550	150	1,450	450	2,600
5. Aviation and aeronautics -					
(a) Air pilotage and map reading.	200	100	300	100	700
(b) Practical Flying - - -	—	—	300	900	1,200
(c) Airmanship - - - -	—	—	200	—	200
(d) Reconnaissance reports, and observers' training.	100	100	—	—	200
Total - - -	300	200	800	1,000	2,300
6. Drill, discipline and general efficiency (awarded by commandant).	—	1,000	—	1,000	2,000
Grand Total - -	2,850	2,700	2,350	3,100	12,000

57. A cadet who misses an examination or part of an examination, owing to sickness or other causes through no fault of his own, will be specially considered by the Commandant, who will report the action taken to the Secretary, Air Ministry. The marks awarded to the cadet for the examination or part of the examination so missed will be assessed by his instructors on his work throughout the term.

58. Confidential reports on cadets will be forwarded to parents or guardians at the end of each term, except the final

report on a cadet passing out which will be seen and initialled by the cadet, without being forwarded to his parent or guardian.

59. Cases of protracted absence on account of ill-health will be referred to the Air Ministry for decision.

60. At each final examination there will be awarded—

The Abdy Gerrard Fellowes Prize (*see* Appendix VI.).

The R. M. Groves Memorial Prize (*see* Appendix VI.).

The Sword of Honour (*see* Appendix VI.).

61. When a cadet passes out of the Royal Air Force (Cadet) College, the Commandant will certify that all debts have been paid. Where this certificate cannot be given the granting of a commission will be liable to be withheld unless these debts are discharged.

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## APPENDIX I.

## EDUCATIONAL FEES, PAYMENTS, AND ALLOWANCES.

1. *Educational fees*.—The following annual contributions will be required from cadets admitted to the Royal Air Force (Cadet) College, Cranwell. (See section IX.) :—

- (i) For a King's cadet                   -       -       -       -       -       Nil.
- (ii) For a prize cadet (subject to the conditions  
laid down in paras. 16 and 17, section IV.)       20*l*.
- iii)—(a) For the son of an officer of the Royal  
Navy, Army or Royal Air Force who held  
a permanent or short service commission  
and who died whilst on full pay, half pay,  
retired pay and whose family has been left  
in pecuniary distress (subject to the  
approval of the Air Council)       -       -       -       -       20*l*.
- (iii)—(b) For the son of a warrant officer, non-  
commissioned officer or man of the Royal  
Navy, Army or Royal Air Force who  
served under an ordinary engagement or  
attestation for a normal period of service,  
and who died whilst on full pay or pension,  
and whose family has been left in  
pecuniary distress (subject to the approval  
of the Air Council)       -       -       -       -       -       20*l*.
- (iv) For the son of a deceased officer, of what-  
ever rank, who held a permanent or short  
service commission in the Royal Navy,  
Army or Royal Air Force, whose widow  
is, or would have been, if living, eligible  
for pension       -       -       -       -       -       40*l*.
- (v) For the son of a warrant officer, non-com-  
missioned officer or man of the Royal  
Navy, Army or Royal Air Force who is  
serving under an ordinary engagement or  
attestation, or who has been discharged  
after at least 20 years' service, or owing to  
ill-health caused by the service       -       -       -       -       40*l*.
- (vi)*a* For the son of an officer who is holding a  
permanent or short service commission  
and is (or, if deceased, was at the time of  
his death holding such a commission and

- was) on the active list rank below the substantive rank (as regards combatant, medical and veterinary officers) or the rank (as regards departmental officers) of Lieutenant-Colonel in the Army, Commander in the Navy, and Wing-Commander in the Royal Air Force - - - - 40l.
- (b) A retired officer who last served in a rank below the above-named ranks, and retired with not less than 20 years' service, or on account of age, non-employment, ill-health caused by the service, or on reduction of establishment - - - - 40l.
- (c) A serving or retired medical quartermaster, or a director of music of the Royal Air Force, or a serving or retired army officer of a similar category, who is, or was, paid under Article 288, Royal Warrant for Pay of the Army, 1922, or under previous regulations governing the pay of such officers, provided that, if retired, he retired with the service or for the reasons stated above - - - 40l.
- (vii) For the son of a serving or retired officer not otherwise provided for - - - 75l.
- (viii) For the son of a private gentleman - - 75l.
- (ix) A cadet not covered by (i) to (vi) above where the cadet himself or his father has been employed on active service in the field with an expeditionary force as an officer in the *Auxiliary Forces*, *Special Reserve*, *Militia*, *Territorial Force*, *New Armies* or *Dominion Forces* specially raised for the Great War, or as a retired officer, or if a civilian, in a position corresponding to that of an officer, the contribution will be at the rate laid down for the son of a permanent or short service officer of the rank (or, if a civilian, the corresponding rank) in which the cadet or his father last served.

If the father of a cadet is promoted, or retires, the rate of contribution shall be altered accordingly. The contribution stated above will be payable half-yearly in advance not later than seven days before the commencement of a term. In the event of non-payment a cadet will not be permitted to enter or return to the Royal Air Force (Cadet) College, except under the specific instructions of the Air Ministry.

2. *Payments for uniform and books.*—In addition to the annual contribution as shown in the preceding paragraph, a payment of 80*l.* prior to first joining and a further payment of 20*l.* prior to the commencement of the third term will be required in respect of each cadet (other than a Prize cadet if he elects to enjoy the emoluments of his prize cadetship, or a King's cadet) towards covering the expenses of uniform and the initial purchase of books. These sums will be payable not later than seven days before the commencement of a term. In the event of non-payment a cadet will not be permitted to enter or return to the Royal Air Force (Cadet) College, except under the specific instructions of the Air Ministry. Accounts for any further sums due will be rendered terminally in arrear and will be payable on demand by the parent or guardian of the cadet.

3. *King's Cadets.*—(i) A King's cadet will be granted an educational allowance of 40*l.* a year, tenable between the ages of 13 and 17½. The educational allowance is issuable quarterly in arrear and is conditional on the expressed declaration in writing of the mother or guardian of the cadet that he will enter the Royal Air Force, and make it his profession in life unless he is prevented, in the opinion of the Air Council, by medical or educational unfitness or by unsatisfactory conduct.

(ii) On admission to the Royal Air Force (Cadet) College he will obtain a remission of the deposit sums usually paid for uniform and books, &c., which at present amount to 100*l.* Any charges incurred in excess of the amount of the deposit will be payable by the parent or guardian as laid down in para. 2.

(iii) A King's cadet will not be charged any educational fees (see para. 1).

(iv) He will receive an outfit allowance (see para. 9).

4. *Prize cadets.*—On admission to the Royal Air Force (Cadet) College a cadet who enjoys the emoluments attached to a Prize cadetship will obtain a remission of the deposit sums usually paid for uniform and books, which at present amount to 100*l.* Any charges incurred in excess of the deposit will be payable by the parent or guardian as laid down in para. 2.

5. *Pay.*—Pay will be credited to a cadet, at the rate of 5*s.* a day, from the date on which he joins the College, which will be increased to 10*s.* per day when he enters his last year's course, unless this is earlier than 12 months from the date of entry into the College of his contemporary cadets when the higher rate shall only commence from the date of completion of such 12 months. The cost of messing, washing, recreation, library



and other incidental charges will be deducted from the cadet's pay, as also the cost of making good damage to government property or the value of equipment lost when such damage or loss is proved to be due to the default of the cadet. The sum assessed for making good the damage to buildings and fixtures will be charged. Any balance of pay remaining to the credit of the cadet after the above charges have been deducted will be issued to him periodically in cash. If any charge be incurred by the cadet that is not recoverable from, or is in excess of, his pay, the balance due to the public will be payable by the parent or guardian.

6. *Allowance*.—A daily allowance of 1s. per cadet will be made during College terms towards meeting the cost of messing and washing, &c. This allowance may be issued during sick leave for a period of seven days, except where the cadet is in a service hospital, in which case the cadet's mess subscription will be waived and the allowance will cease forthwith.

No messing allowance is made for the days on which a cadet is absent on ordinary short leave.

7. *Sickness*.—(i) A cadet may draw full pay for the under-mentioned periods during sick leave (including any period in hospital) granted on the recommendation of the regulated medical authority, provided that there is a probability that within a reasonable time he will be fit for general service in the R.A.F.:—

(a) In cases of sickness or injury not attributable to the service—full pay up to a maximum of 3 months.

(b) In cases of sickness or injury attributable to the service—full pay up to a maximum of 12 months.

(c) A cadet who in the opinion of the Air Council is not likely to be fit for general service in the R.A.F. within a reasonable time will be invalided from the College and will cease to be entitled to pay forthwith.

(ii) The date from which sick leave is reckoned is the first day of absence from duty. Previous sick leave on account of the same disability will count towards the period of sick leave on full pay if the cadet falls sick within 61 days of his return to duty from sick leave. A cadet while at the College may, when necessary, be admitted to the R.A.F. hospital at Cranwell. A stoppage of 2s. 6d. a day will be made for each day he is in hospital. If a cadet is admitted to a civil hospital, all hospital charges will be a liability of the cadet, or his parents or guardian.

(iii) No remission of educational fees will be allowed on account of any period of sickness for which pay is drawn. For any period for which pay is not drawn remission may be allowed in special circumstances at the discretion of the Air Council. In exceptional cases the pay of a cadet may, on the recommendation of the Commandant, be stopped by order of the Air Council for the whole or part of the period of his absence.

8. *Rustication, withdrawal, removal, expulsion and extra terms.*—If a cadet is rusticated, withdrawn, removed or expelled during a term, his pay and allowance shall cease from the date of such rustication, withdrawal, removal, or expulsion, and, if rusticated, will not be resumed until he re-joins the College for study. When the parent or guardian of a cadet is requested to withdraw him, and he is sent on leave pending withdrawal, the cadet's pay and allowance will cease from the date of proceeding on leave. No remission of educational fees will be allowed on account of rustication, withdrawal, removal or expulsion, unless otherwise specifically decided by the Air Council. If a cadet is absent a whole term in consequence of rustication, a payment of 10*l.* will be required for the privilege of his name being kept on the rolls of the College, and for a vacancy being kept open at the commencement of the next term, except for a fatherless cadet, whose annual contribution is only 20*l.*, when the amount to be paid in such circumstances will be decided by the Air Council. When a cadet is ordered to drop a term, and an extra term of residence at the College is thereby entailed, his parent or guardian will be required to pay an additional half year's contribution in respect of the extra term.

On the entry of a cadet, parents or guardians will be required to undertake that in the event of his withdrawing or being withdrawn from the College, they will pay to the Air Ministry, if demanded, a sum not exceeding 37*l.* 10*s.* in respect of each term or part of a term included in the period between the date of his entry and the date of his withdrawal, as a contribution towards the balance of the cost of his training and maintenance not covered by the payments prescribed in the foregoing paragraphs.

This undertaking will not apply to cadets withdrawn at the request of the Air Council, or on account of ill-health.

9. *Outfit allowances.*—On being commissioned, a cadet, if he has never held a commission in His Majesty's Forces before, will receive an outfit allowance of 50*l.* In addition, an allowance

of 7l. 10s. will be issued if he is required to provide himself with camp kit. Certain items of uniform and equipment for camp kit will be issued in kind, and the cost deducted from these allowances.

10. *Compensation for injury while flying, &c.*—If a cadet is removed from the College owing to physical unfitness caused by injury sustained (a) while on flying duty or while being carried in aircraft under proper authority, or (b) while otherwise undergoing authorised instruction in flying duties, he may be paid compensation for his disability from the date of his removal in accordance with the following scale:—

<i>Degree of disability</i>				<i>£ per annum</i>			
100 per cent.	-	-	-	-	-	-	150
Less than 100 per cent.	but not less than	90 per cent.					135
"	90	"	"	80	"	-	120
"	80	"	"	70	"	-	105
"	70	"	"	60	"	-	90
"	60	"	"	50	"	-	75
"	50	"	"	40	"	-	60
"	40	"	"	30	"	-	45
"	30	"	"	20	"	-	30
"	20 per cent.	-	-	-	-	-	Nil.

(ii) This disability compensation will only be payable in the above circumstances of injury. Grants will be temporary unless the disability is certified by the competent medical authority to have reached its final condition, *i.e.*, the cadet will be medically re-examined from time to time, and the grant renewed, increased, or decreased according to the then existing degree of disability due to the original cause. If at any time this degree is found to be less than 20 per cent., payment of disability compensation will cease. If the unfitness which led to removal, or if the injury which caused the unfitness, was due wholly or in part to the cadet's own negligence, misconduct, or any cause within his own control, the grant of disability compensation may be withheld or reduced at the discretion of the Air Council. The rates set out above will be subject to reduction at the discretion of the Air Council in the event of the cost of living falling considerably below the level at which it stood on 1st October 1921. Such reduction, if made, will apply to compensation which is in course of payment at the date of reduction as well as to future grants.

## APPENDIX II.

SYLLABUS OF SUBJECTS FOR THE ENTRANCE  
EXAMINATION.

## ENGLISH.

Marks, 2,000.

(a) English Essay.

(b) Précis-writing. (The subject set may be either a selection of diplomatic or other correspondence, or one or more passages of a prose author.)

(c) General paper (to test general knowledge and intelligence).

## ENGLISH HISTORY AND GEOGRAPHY.

Marks, 2,000.

## ENGLISH HISTORY.

Marks, 1,200.

Outlines of English history 1714 to the present day. Questions will be set which will give the candidate an opportunity of showing his knowledge of European history during this period. Such questions will deal only with the broad outlines of the subject. An adequate knowledge of geography will be expected of all candidates.

## GEOGRAPHY.

Marks, 800.

A.—The general geography of the world and its physiological basis, viz. :—

The size and shape of the earth; latitude and longitude; general distribution of land and sea.

The atmosphere; seasonal and regional variations of temperature, pressure, and rainfall; winds.

The sea: form and temperature of the oceans; drift and stream currents; the tides.

The land: characteristics and distribution of mountains, tablelands, highlands, and plains; action of ground and surface water, ice, and wind; types of land forms; characteristics of river systems.

Effects of climate on vegetation ; characteristics and distribution of forests, grass lands, and deserts. Animals characteristic of the chief vegetative regions ; the great fishing grounds.

General characters and distribution of the chief races of mankind.

Distribution of population and of occupations in relation to physical features, climate, and vegetation ; the natural divisions and the chief products of each continent ; geographical reasons for the position of the great cities of the world and the routes between them. Frontiers.

Simple methods of making maps.

Candidates will be expected to show an elementary knowledge of the topography of the world, and to be able to read topographical and statistical maps, including Ordnance Survey maps.

B.—The geography of the British Isles in detail.

## FRENCH.

Marks, 2,000.

(a) Unprepared translation.

(b) Translation into French of English sentences which will involve only simple constructions, and easy continuous composition.

(c) Free composition, *e.g.*, the development in the candidate's own words of a prescribed subject or the reproduction in French of a story read in French or in English.

(d) Dictation.

(e) Reading and conversation in French.

*An oral test will be held when practicable and, when held, will carry 500 marks. It will consist of heads (d) and (e) or of head (e) alone. When no oral test is held the whole of the marks will be allotted to the heads (a), (b), and (c).*

## GERMAN.

Marks, 2,000.

As for French,



## LATIN.

Marks, 2,000.

(a) Unprepared translation.

(b) Translation into Latin of English sentences (some of which will involve only simple constructions), and easy continuous composition.

Candidates must offer both (a) and (b) and must show in their work a satisfactory knowledge of Latin grammar.

## GREEK.

Marks, 2,000.

As for Latin.

## ELEMENTARY MATHEMATICS.

Marks, 2,000.

*Arithmetic.*—The ordinary processes of arithmetic; the commoner units in the tables of measurement of length, area, volume (including pints, quarts, gallons) and weight (avoir-du-pois); the metre, gramme, and litre with their commoner multiples and sub-multiples; franc and centime, dollar and cent. A knowledge of recurring decimals and the process of extracting the cube root will not be required. Questions will not be set on “present worth” or “true discount.” The use of contracted methods will not be required.

Questions will also be set on the use of callipers and vernier, on determination of areas, by dimensions (rectilinear figures, circles), by squared paper, by weighing; area of cross-section and diameter of a tube; determination of volume, by dimensions (rectangular block, sphere, cylinder), by displacement (overflow, graduated jar, burette), by weighing; use of balance; determination of density and specific gravity.

The use of algebraic symbols and processes, and the use of slide rules and tables of logarithms will be allowed.

*Algebra.*—The expression of an arithmetical generalization in a formula; easy questions on the simplification of algebraical expressions, such as might arise in dealing with practical problems; interpretation of a formula; evaluation of a formula for numerical values of its variables; simple equations; easy quadratic equations; solution of two linear simultaneous equations; algebraical equivalents of item 32 in the Cambridge Geometry Schedule; easy factors; easy graphs; change of the subject of a formula; the use of four-figure logarithm tables.

*Geometry.*—Practical and theoretical geometry according to the Cambridge Geometry Schedule (*see* pp. 32 to 36). Proofs will not be required of the propositions marked with an asterisk. Numerical solution of right-angled triangles by geometry or by use of cosine and tangent.

Candidates will be expected to be acquainted with the forms of the simpler solid bodies, namely, the cube, the rectangular block, the sphere, the cylinder, the wedge, the right pyramid, and the cone.

In the absence of special instructions that a question is to be answered by a particular method, candidates are at liberty to choose their method from any branch of mathematics.

The examination in Elementary Mathematics will include a laboratory test. The laboratory test will carry 400 marks.

## INTERMEDIATE MATHEMATICS.

Marks, 2,000.

Includes Elementary Mathematics together with:—

*Geometry.*—Elementary ideas in solid geometry treated informally (angle between planes, angle between line and plane great and small circles of sphere, mensuration).

*Algebra.*—Solution of two simultaneous equations, one linear and one quadratic; easy questions in variation; the meaning and simplest properties of negative and fractional indices; use of logarithmic notation; arithmetic progression, finite geometric progression; rate of change of a function and gradient of a graph; practical application of gradients and of areas of graphs.

*Trigonometry.*—Solution of plane triangles; graphs of trigonometrical functions; use of four-figure tables; formulæ for trigonometrical ratios of the sum and difference of two angles.

*Statics and Dynamics.*—The lever, the inclined plane, the pulley and other simple machines; the composition and resolution of forces in one plane; moments; simple graphical methods; friction; simple cases of equilibrium; properties of the centre of gravity; work; velocity ratio, mechanical advantage, and efficiency of a machine.

The composition and resolution of velocities and accelerations in one plane; rectilinear motion under uniform acceleration; Newton's laws of motion; the conservation of linear momentum; work and energy; the time of flight, greatest height, and horizontal range of a projectile.

Proofs of the parallelogram and triangle of forces and of the principle of moments will not be asked for.

In the absence of special instructions that a question is to be answered by a particular method, candidates are at liberty to choose their methods from any branch of mathematics.

The examination in Intermediate Mathematics will include a laboratory test. The laboratory test will carry 400 marks.

## HIGHER MATHEMATICS.

Marks, 2,000.

Includes Elementary and Intermediate Mathematics together with—

*Geometry.*—Elements of solid geometrical drawing.

*Algebra.*—Elementary knowledge of the use of indeterminate coefficients, especially with partial fractions.

*Co-ordinate Geometry and Infinitesimal Calculus.*—Equations to the straight line, circle, ellipse, parabola, hyperbola, and other simple curves, in rectangular co-ordinates. The curves referred to will provide illustrations and applications of co-ordinate geometry and infinitesimal calculus, but acquaintance is expected only with the simplest theorems about the curves.

Differentiation and integration of simple standard forms and other forms depending on them; application to easy geometrical properties of plane curves, to easy mechanical and physical problems, to turning values, and to the expansion of simple algebraic and trigonometrical functions. A working knowledge (without rigorous fundamental demonstrations) of the elementary infinite series for  $(1+x)^m$ ,  $e^x$ ,  $\log(1+x)$ , and their use in approximative calculations.

Co-ordinate geometry of three dimensions up to the equations to the plane and the straight line.

Polar co-ordinates: deduction of the equation of a curve from simple data; drawing a curve from its equation.

*Mechanics.* — Elementary statics of liquids and gases. Further mechanics of solid bodies, *e.g.*, pendulum and easy questions on moment of inertia.

In Higher Mathematics more analytical skill will be expected than in the earlier stages. In the absence of special instructions that a question is to be answered by a particular method, candidates are at liberty to choose their method from any branch of mathematics.

The examination in Higher Mathematics will include a laboratory test. The laboratory test will carry 400 marks.

## PHYSICS AND CHEMISTRY.\*

Marks, 2,000.

## PHYSICS.

(a) *Heat and Optics*.—Sources and production of heat; thermometry; expansion; calorimetry, specific heat, change of state, latent heat; convection, conduction, and radiation. Relation of heat to other forms of energy; the mechanical equivalent of heat. Practical applications.

Production and propagation of light; the reflection and refraction of light at plane and spherical surfaces; the formation of images; mirrors and simple lenses; simple optical instruments. Dispersion and colour; vision.

(b) *Electricity and Magnetism*.—Simple experiments and measurements with magnets; lines of force; terrestrial magnetism. Elementary principles of electro-statics; electro-static induction. Simple forms of cells; electro-motive force, current, resistance; the magnetic, chemical, and thermal effects of a current; method of measuring currents. The tangent galvanometer and moving coil galvanometer. Electro-magnetic induction; elementary questions on the application of these principles, *e.g.*, to the dynamo or motor, telegraph or telephone, may be set.

## CHEMISTRY.

The distinction between elements, compounds, mixtures; the laws of combination; equivalent weight, molecular weight, atomic weight, and their determination by direct methods only. The chemistry of the following elements and of their chief compounds—Hydrogen, Chlorine, Bromine, Iodine, Oxygen, Sulphur, Nitrogen, Phosphorus, Carbon, Potassium, Sodium, Zinc, Iron, Copper. Acids, bases, and salts. The relation of the atmosphere to plant and animal life. The part played by carbon in the growth of plants.

NOTE.—There will be no laboratory test in Physics and of Chemistry as a part the examination, and no candidate will be permitted to offer Physics and Chemistry unless he has furnished

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\* The papers on this subject will be framed so that a candidate will be able to obtain about three-fourths of the total marks by showing a thorough knowledge of either Physics or Chemistry, but will not be able to obtain full marks without showing some knowledge of Electricity and Magnetism.

either (a) a certificate from the headmaster of one of the schools named in Appendix 4 of the Regulations for entrance to the Royal Air Force (Cadet) College, Cranwell, that he has taken the normal laboratory course in Physics and Chemistry for at least two full terms within two years of the first day of the examination for which he wishes to enter; or (b) other evidence satisfactory to the Civil Service Commissioners of adequate laboratory training, such training to have been undergone within the same period as prescribed under head (a); provided that a candidate who has taken the papers in Physics and Chemistry at an examination for army entrance, or at a concurrent examination, held prior to that of November 1922, will be exempted from the requirement to produce such certificate or other evidence of laboratory training. The certificate or other evidence must be sent to the Civil Service Commission at the same time as the selection form on which the candidate states his choice of subjects.

## GENERAL SCIENCE.

(Alternative to Physics and Chemistry.)

Marks, 2,000.

Papers will be set to test the candidates' knowledge of scientific principles and of their application in every-day life, as indicated in the following schedule:—

Principles of mechanics, illustrated by falling bodies and by simple machines; the meaning of mass, weight, force, energy; the transformations of energy.

The general properties of solids, liquids, and gases; principles of hydrostatics with practical applications; outlines of diffusion and surface tension.

Production and sources of heat; the ideas of temperature and quantity of heat; effects of heat on matter; transference of heat. Relation between heat and work as illustrated in the steam engine and the internal combustion engine. Domestic heating and ventilation.

Production and propagation of sound, pitch, loudness, and quality.

Production and propagation of light; reflection, refraction, and dispersion; colour. The eye and simple optical instruments. Domestic lighting.

Elementary ideas of magnetism. The fundamental experiments of electrostatics. Effects of the electric current. Ohm's law. Current induction with the outlines of its application in



the dynamo. Practical applications of electricity in domestic lighting and in the transmission and transformation of energy.

The chemistry of air and water and of the elements contained in them. The chemistry of combustion; common forms of fuel; carbon as a reducing agent in metallurgy. The relation of the air and its constituents to the life of plants and animals and to the weathering of rocks. The general laws of chemical combination illustrated by a few common substances (*e.g.*, chalk, sulphur, salt, and the common acids and bases); explanation of these laws by the atomic theory.

The distinction between living and non-living things; the distinction between typical plants and typical animals. The life of a plant, importance of plants in building up food and fuel. Fundamental principles of agriculture. Simple cases of fermentation and enzyme action. Simple physiology and hygiene.

The solar system; stars and nebulae. General structure of the earth's crust; igneous and sedimentary rocks; agents of denudation and deposition; fossils and their significance.

Some choice of questions will be given. A laboratory test may be included in the subject-matter of the above syllabus.

## FREEHAND DRAWING.

Marks, 400.

(There will be no deductions; candidates will be credited with all the marks gained.)

## THE CAMBRIDGE GEOMETRY SCHEDULE.

(Referred to in the syllabus of Elementary Mathematics.)

The order in which the theorems are stated is not imposed as the sequence of their treatment.

### SECTION I. (PRACTICAL GEOMETRY).

1. Bisection of angles and of straight lines.
2. Construction of perpendiculars to straight lines.
3. Construction of an angle equal to a given angle.
4. Construction of parallels to a given straight line.
5. Simple cases of the construction from sufficient data of triangles and quadrilaterals.
6. Division of straight lines into a given number of equal parts.

7. Construction of a triangle equal in area to a given polygon.

8. Construction of tangents to a circle, and of common tangents to two circles.

9. Simple cases of the construction of circles from sufficient data.

## SECTION II. (PRACTICAL GEOMETRY).

10. Division of straight lines into parts in any given proportions.

11. Construction of a fourth proportional to three given straight lines, and a mean proportional to two given straight lines.

12. Construction of regular figures of 3, 4, 6 or 8 sides in or about a given circle.

13. Construction of a square equal in area to a given polygon.

## SECTION III.

### ANGLES AT A POINT.

\*14. If a straight line stands on another straight line, the sum of the two angles so formed is equal to two right angles; and the converse.

\*15. If two straight lines intersect, the vertically opposite angles are equal.

### PARALLEL STRAIGHT LINES.

\*16. When a straight line cuts two other straight lines, if—

- (i) a pair of alternate angles are equal, or
  - (ii) a pair of corresponding angles are equal, or
  - (iii) a pair of interior angles on the same side of the cutting line are together equal to two right angles,
- then the two straight lines are parallel; and the converse.

\*17. Straight lines which are parallel to the same straight line are parallel to one another.

### TRIANGLE AND RECTILINEAR FIGURES.

18. The sum of the angles of a triangle is equal to two right angles.

19. If the sides of a convex polygon are produced in order the sum of the angles so formed is equal to four right angles.

\*20. If two triangles have two sides of the one equal to two sides of the other, each to each, and also the angles contained by those sides equal, the triangles are congruent.

\*21. If two triangles have two angles of the one equal to two angles of the other, each to each, and also one side of the one equal to the corresponding side of the other, the triangles are congruent.

\*22. If two sides of a triangle are equal, the angles opposite to these sides are equal; and the converse.

\*23. If two triangles have the three sides of the one equal to three sides of the other, each to each, the triangles are congruent.

24. If two right-angled triangles have their hypotenuses equal, and one side of the one equal to one side of the other, the triangles are congruent.

25. If two sides of a triangle are unequal, the greater side has the greater angle opposite to it; and the converse.

26. Of all the straight lines that can be drawn to a given straight line from a given point outside it, the perpendicular is the shortest.

27. The opposite sides and angles of a parallelogram are equal, each diagonal bisects the parallelogram, and the diagonals bisect one another.

28. If there are three or more parallel straight lines, and the intercepts made by them on any straight line that cuts them are equal, then the corresponding intercepts on any other straight line that cuts them are also equal.

#### AREAS.

29. Parallelograms on the same or equal bases and of the same altitude are equal in area.

30. Triangles on the same or equal bases and of the same altitude are equal in area.

31. Equal triangles on the same or equal bases are of the same altitude.

32. Illustrations and explanations of the geometrical theorems corresponding to the following algebraical identities:—

$$\begin{aligned} k(a+b+c+\dots) &= ka+kb+kc+\dots, \\ (a+b)^2 &= a^2+2ab+b^2, \\ (a-b)^2 &= a^2-2ab+b^2, \\ a^2-b^2 &= (a+b)(a-b). \end{aligned}$$

33. The square on a side of a triangle is greater than, equal to, or less than the sum of the squares on the other two sides, according as the angle contained by those sides is obtuse, right, or acute. The difference in the cases of inequality is twice the rectangle contained by one of the two sides and the projection on it of the other.

## LOCI.

34. The locus of a point which is equidistant from two fixed points is the perpendicular bisector of the straight line joining the two fixed points.

35. The locus of a point which is equidistant from two intersecting straight lines consists of the pair of straight lines which bisect the angles between the two given lines.

## THE CIRCLE.

36. A straight line, drawn from the centre of a circle to bisect a chord which is not a diameter, is at right angles to the chord; conversely, the perpendicular to a chord from the centre bisects the chord.

\*37. There is one circle, and one only, which passes through three given points not in a straight line.

\*38. In equal circles (or, in the same circle) (i) if two arcs subtend equal angles at the centres, they are equal; (ii) conversely, if two arcs are equal, they subtend equal angles at the centres.

\*39. In equal circles (or, in the same circle) (i) if two chords are equal, they cut off equal arcs; (ii) conversely, if two arcs are equal, the chords of the arcs are equal.

40. Equal chords of a circle are equidistant from the centres and the converse.

## SECTION IV.

THE CIRCLE (*continued*).

41. The tangent at any point of a circle and the radius through the point are perpendicular to one another.

42. If two circles touch, the point of contact lies on the straight line through the centres.

43. The angle which an arc of a circle subtends at the centre is double that which it subtends at any point on the remaining part of the circumference,

44. Angles in the same segment of a circle are equal; and, if the line joining two points subtends equal angles at two other points on the same side of it, the four points lie in a circle.

45. The angle in a semicircle is a right angle; the angle in a segment greater than a semicircle is less than a right angle; and the angle in a segment less than a semicircle is greater than a right angle.

46. The opposite angles of any quadrilateral inscribed in a circle are supplementary; and the converse.

47. If a straight line touch a circle, and from the point of contact a chord be drawn, the angles which this chord makes with the tangent are equal to the angles in the alternate segments.

48. If two chords of a circle intersect either inside or outside the circle the rectangle contained by the parts of the one is equal to the rectangle contained by the parts of the other.

## SECTION V.

### PROPORTION: SIMILAR TRIANGLES.

49. If a straight line is drawn parallel to one side of a triangle the other two sides are divided proportionally; and the converse.

50. If two triangles are equiangular their corresponding sides are proportional; and the converse.

51. If two triangles have one angle of the one equal to one angle of the other and the sides about these equal angles proportional, the triangles are similar.

52. The internal bisector of an angle of a triangle divides the opposite side internally in the ratio of the sides containing the angle, and likewise the exterior bisector externally.

53. The ratio of the areas of similar triangles is equal to the ratio of the squares on corresponding sides.

## APPENDIX III.

### SYLLABUS OF INSTRUCTION AT ROYAL AIR FORCE (CADET) COLLEGE.

#### 1st Year.

The subjects which will form the course of studies (*see* para. 56) are the following:—

1. *English Language and Literature*.—To be studied from the standpoint of enabling cadets to express themselves clearly and concisely in speech and in writing, of creating an interest in reading, and of developing the capacity to use books intelligently for the purposes of general culture and of technical research.

2. *General Ethnology*.—To create an interest as an incentive to voluntary study of the subject and to introduce the cadet



to a general knowledge of the chief races of mankind, their division into nations, their origin, and the general lines of their development.

3. *The British Empire*.—Its history, social and industrial development, and relations with other States.

4. *Practical Mathematics, including Mechanics and Draughtsmanship*.—To be studied as a subject of practical utility in relation to an officer's professional career and as a means of developing the power of clear and accurate reasoning. A knowledge of elementary mathematics, algebra, geometry, and trigonometry will be assumed, and the work will be closely correlated with that in the technical subjects of study. Special attention will be given to applied mechanics, to graphics, and to practical work in the laboratory.

5. *General Elementary Science*.—The fundamental principles in special relation to aeronautics.

6. *History of the Royal Air Force*.—The part played by it in the late war and its present organization.

7. *Theory of flight and rigging*.

8. *Air pilotage. Map reading*.

9. *Reconnaissance reports and observers training*.

10. *Drill (with rifles) and Physical Training*.

11. *Hygiene and Sanitation*.

12. *Workshops and engines, including practical work in workshops, with instruction in metal and woodwork*.

13. *The Morse Code*.

14. *Practical flying, including instruction in the duties of an observer*.

## 2nd Year.

1. *Theoretical and practical instruction in internal combustion engines, including magnetos and their management*.

2. *Theory of Flight*.

3. *Practical instruction in rigging*.

4. *More Advanced work in the wood and metal workshops*.

5. *Outline of Wireless Telegraphy and Telephony*.

6. *Vickers and Lewis guns*.

7. *Practical flying*.

8. *Air Pilotage and Airmanship*.

9. *Meteorology*.

10. *Outline of the organization of the Navy and Army, with characteristics of the various arms and types of ships*.

**APPENDIX IV.**  
**SCHOOLS WHOSE HEADMASTERS ARE PERMITTED TO**  
**RECOMMEND CANDIDATES FOR NOMINATION**  
**BY THE AIR COUNCIL.**

Name of School.	Inspecting Department or Body.
Aldenham School, Elstree	Oxford and Cambridge Schools Examination Board.
Ampleforth College, Oswald- kirk, York.	Ditto.
Beaumont College, Old Wind- sor.	Ditto.
Bedford School	Ditto.
Berkhamsted School	Oxford Local Examination Delegacy.
Blundell's School, Tiverton	Board of Education.
Bradfield College, Berks	Ditto.
Brighton College	Oxford and Cambridge Schools Examination Board.
Bristol Grammar School	Board of Education.
Bromsgrove School	Ditto.
Campbell College, Belfast	Oxford and Cambridge Schools Examination Board.
Charterhouse School	Ditto.
Cheltenham College	Board of Education.
Chigwell School	Ditto.
Christ's Hospital	Oxford and Cambridge Schools Examination Board.
Churchers College, Petersfield	Board of Education.
Clifton College	Ditto.
Cranbrook School	Ditto.
Dean Close School, Cheltenham	Ditto.
Dollar Institution	Scottish Education Depart- ment.
Dover College	Oxford and Cambridge Schools Examination Board.
Downside School, Bath	Ditto.
Dulwich College	Ditto.

Name of School.	Inspecting Department or Body.
Duke of Yorks, Royal Military School, Euston.	Board of Education.
Eastbourne College - - -	Oxford and Cambridge Schools Examination Board.
Edinburgh Academy - -	Scottish Education Depart- ment.
Elizabeth College, Guernsey -	Oxford and Cambridge Schools Examination Board.
Ellesmere College - - -	Board of Education.
Emanuel School, Wandsworth -	Oxford Local Examination Delegacy.
Epsom College - - -	Oxford and Cambridge Schools Examination Board.
Eton College - - - -	Ditto.
Exeter School - - - -	Board of Education.
Felsted School - - - -	Oxford and Cambridge Schools Examination Board.
Fettes College - - - -	Scottish Education Depart- ment.
Forest School, Walthamstow -	Oxford and Cambridge Schools Examination Board.
Framlingham College, Suffolk -	Cambridge Local Examination Syndicate.
George Watson's College, Edin- burgh.	Scottish Education Depart- ment.
Giggleswick School, Settle -	Oxford and Cambridge Schools Examination Board.
Glasgow High School - - -	Scottish Education Depart- ment.
Glenalmond College - - -	Ditto.
Gresham's School, Holt, Norfolk	Oxford and Cambridge Schools Examination Board.
Haileybury College - - -	Ditto.
Harrow School - - - -	Board of Education.
Hereford Cathedral School -	Ditto.
Highgate School - - - -	Ditto.

Name of School.	Inspecting Department or Body.
Imperial Service College. Windsor.	University of Birmingham.
Ipswich School - - -	Board of Education.
Kelly College, Tavistock - -	Oxford Local Examination Delegacy.
Kelvinside Academy, Glasgow -	Scottish Education Depart- ment.
King Alfred's Grammar School, Wantage.	Board of Education.
King Edward VII. School, Sheffield.	Ditto.
King Edward's School, Birming- ham.	Ditto.
King's College School, Wimbles- ton.	Ditto.
King's School, Canterbury -	Ditto.
King's School, Rochester - -	Oxford and Cambridge Schools Examination Board.
King's School, Worcester -	Board of Education.
King William's College, Isle of Man.	Oxford and Cambridge Schools Examination Board.
Lancing College - - -	Ditto.
Leeds Grammar School - -	Board of Education.
Leys School, Cambridge - -	Oxford and Cambridge School Examination Board.
Loretto School - - -	Scottish Education Depart- ment.
Maidstone Grammar School -	Board of Education.
Malvern College - - -	Oxford and Cambridge Schools Examination Board.
Marlborough College - - -	University of Birmingham.
Merchant Taylors School, London.	Oxford and Cambridge Schools Examination Board.
Merchiston Castle School, Edinburgh.	Scottish Education Depart- ment.
Mill Hill School - - -	Oxford and Cambridge Schools Examination Board.
Monkton Combe School - -	Ditto.

Name of School.	Inspecting Department or Body.
Morrison's Academy, Crieff	Scottish Education Department.
North Eastern County School, Barnard Castle.	Cambridge Local Examination Syndicate.
Oakham School, Oakham	Board of Education.
Oratory School, Edgbaston, Birmingham.	Oxford and Cambridge Schools Examination Board.
Oundle School, Northamptonshire.	Ditto.
Perse School, Cambridge	Board of Education.
Plymouth College	Ditto.
Portsmouth Grammar School	Ditto.
Queen Victoria College	Ditto.
Radley College	Oxford and Cambridge Schools Examination Board.
Reading School	Ditto.
Repton School	Ditto.
Rossall School	Ditto.
Royal Grammar School, Lancaster.	Board of Education.
Rugby School	Ditto.
St. Alban's School	Ditto.
St. Bees School, Cumberland	Ditto.
St. Columba's College, Rathfarnham, co. Dublin.	Intermediate Board of Education for Ireland.
St. Edmund's School, Canterbury.	Oxford and Cambridge Schools Examination Board.
St. Edward's School, Oxford	Board of Education.
St. Lawrence College, Ramsgate	Oxford and Cambridge Schools Examination Board.
Sedbergh School	Ditto.
Sherborne School	Board of Education.
Shrewsbury School	Oxford and Cambridge Schools Examination Board.
Sir Rodger Manwood's School	Board of Education.
Stonyhurst College	Oxford and Cambridge Schools Examination Board.
Solihull Grammar School	Board of Education.
Taunton School	Ditto.



Name of School.	Inspecting Department or Body.
Tonbridge School - - -	Oxford and Cambridge Schools Examination Board.
Trent College, Long Eaton - University College School, Hampstead.	Ditto. Board of Education.
Uppingham School - - -	University of Birmingham.
Victoria College, Jersey - -	Board of Education.
Wellington College, Berks - -	Ditto.
Wellington School, Somerset -	Ditto.
West Buckland School, N. Devon.	Cambridge Local Examina- tion Syndicate.
Westminster School - - -	Oxford and Cambridge Schools Examination Board.
Weymouth College - - -	Ditto.
Whitgift Grammar School, Croydon.	Board of Education.
Winchester College - - -	Oxford and Cambridge Schools Examination Board.
Woodbridge School - - -	Ditto.
Worksop College, Notts - -	Ditto.
Wrekin College - - -	Ditto.

## APPENDIX V.

### THE MEDICAL EXAMINATION OF CANDIDATES FOR COMMISSIONS IN THE ROYAL AIR FORCE (PROVISIONAL).

1. The medical examination of candidates for commissions in the Royal Air Force will be conducted by a special board of medical officers detailed by the Director of Medical Services, Royal Air Force, and will be held in London. A candidate for a commission in the Royal Air Force must be in good mental and bodily health, and free from any physical defect likely to interfere with his instruction in aviation and the efficient performance of his duties at home or abroad.

2. The examination will be conducted on the following lines :—

- (i) Interrogatory and psychological examination.
- (ii) Routine medical and surgical examination.

- (iii) Examination of the eyes.
- (iv) Examination of ears, nose, and throat.
- (v) Special medical examination in regard to aptitude for flying.

#### EYE EXAMINATION.

3.—(i) The examination for determining the acuity of vision will be conducted with well-illuminated standard test types without glasses at a distance of 6 metres (or 20 feet). The standard of minimum acuteness of vision with which a candidate will be accepted is, for distant vision, 6/6 with each eye.

(ii) Where the candidate is *otherwise specially fit* the eye specialist may recommend acceptance where the visual acuity is equal to 6/9 in each eye, provided that such vision is correctable by glasses to 6/6 in each eye, and the conditions laid down in the following sub-paragraphs (iii), (iv), and (v) are fulfilled, and such candidate may be passed by the president of the board as FIT. Hypermetropia of 2D or more in either eye will disqualify.

(iii) Both eyes must have good fields of vision as tested by hand movements.

(iv) There must be good binocular fusion and balance of the eye muscles.

(v) There must be normal colour vision according to the Board of Trade standards.

#### EXAMINATION OF EARS, NOSE, AND THROAT.

##### 4. *Hearing.*

(i) The hearing in either ear must be acute, equivalent to a forced whisper at 20 feet, each ear being tested separately with the other ear blocked and the face turned away. When it is considered that treatment may bring defective hearing up to standard, the candidate may be temporarily deferred and re-examined at a later date.

(ii) Meatal infections and obstructions, while not permanently disqualifying a candidate, must be satisfactorily cured or removed before acceptance.

(iii) Catarrhal or suppurative otitis media. If the condition is acute or sub-acute, the candidate may be referred for treatment and subsequently re-examined. Chronic suppurative otitis media is a cause for rejection, as also the radical mastoid operation, successful or otherwise. A healed operation for acute mastoid suppuration, with satisfactory hearing and sound membrana tympani, is not a cause for rejection.

(iv) A permanent perforation in a membrane without discharge a disqualification for air work.

- (v) Cicatrices of the drum of long standing, unless obviously liable to break down under alterations of atmospheric pressure, may be passed, provided the hearing is up to standard.

5. *Mouth. Examination of the teeth.*

Carious teeth must be successfully treated before acceptance. Artificial teeth do not disqualify, but care must be taken that the plates are well fitting. Extensive pyorrhœa is a cause for rejection.

6. *Pharynx. Tonsils.*

- (i) Enlarged tonsils which produce obstruction, or become repeatedly inflamed or associated with attacks of quinsy, must be enucleated before a candidate is accepted.
- (ii) Septic tonsils, even only small remnants, from which the septic material can be expressed, or are the cause of repeated sore throats or chronic enlargement of the glands of the neck, must be enucleated before acceptance.

7. *Naso-pharynx.*

- (i) Adenoids, however small in amount, if they cause repeated colds, with acute or sub-acute Eustachian obstruction, or catarrhal or suppurative inflammation of the middle ear, must be removed.
- (ii) Both Eustachian tubes must be patent.

8. *Nose.*

- (i) Mouth breathing is a serious flying disability; any condition which obstructs the free passage of air through the naso-pharynx must be remedied before a candidate can be accepted.
- (ii) Chronic suppuration of the accessory sinuses and atrophic rhinitis are a cause for rejection.

**SURGICAL EXAMINATION.**

9. The candidates must not be ruptured, or suffer from a severe degree of varicocele, hæmorrhoids, or varicose veins. Candidates found to be suffering from a complaint which would entail rejection but which is curable by operation will be marked unfit, but the Board may recommend re-examination after operation. The following wounds, injuries, and operations require special mention:—

- (a) *Head.*—A history of fracture of the skull definitely disqualifies for air work.
- (b) *Neck.*—Scars, the result of removal of tuberculous glands, will not be considered a cause for rejection.

(c) *Chest*.—The chest must be well formed and the lungs and bronchi free from disease.

(d) *Abdominal operations*.—Evidence that an abdominal operation has been performed will not, in itself, disqualify a candidate, provided that no hernial protrusion or marked weakness of the abdominal wall has resulted.

#### MEDICAL EXAMINATION.

10. The candidate must be possessed particularly of sound lungs, heart, and nervous system. Owing to the importance of these systems, they will, in addition to the usual clinical examination, be tested by special tests employed by the board. The urinary system must be healthy, and the urine must be free from abnormal constituents. In regard to the circulatory system, valvular or myocardial disease will disqualify a candidate.

### APPENDIX VI.

#### THE SWORD OF HONOUR, SCHOLARSHIPS AND PRIZES.

##### SWORD OF HONOUR.

1. A Sword of Honour will be presented to the flight cadet who on passing out is recommended by the Commandant of the College as having most distinguished himself in study, sport and general influence while in residence at the College.

##### THE "WAKEFIELD" SCHOLARSHIP.

2. Sir Charles Wakefield has generously undertaken to provide funds for a period of three years for the annual award of two scholarships, each of the value of 75*l.* a year, to assist in defraying the expenses of residence at the Royal Air Force (Cadet) College of cadets whose parents or guardians are in reduced circumstances. Preference will be given to those whose reduced circumstances are due to the late war.

3. A King's cadet, a prize cadet or a candidate nominated under section VIII. will not be eligible to hold a Wakefield Scholarship.

4. Scholarships will be offered :—

- (i) For competition each year at the examinations for admission to the College held in June and November.
- (ii) For competition amongst aircraft apprentices who win cadetships.

5. The scholarships on each occasion will be awarded to those candidates accepted as eligible by the Air Council who pass highest into the College.

6. Scholarships will be tenable for one year and will be payable in advance at the beginning of a cadet's residence.

7. The names of intending candidates should be forwarded to the Secretary, Air Ministry, Kingsway, London, W.C. 2, by whom they should be received not later than the 15th of January and the 15th of May from candidates who propose sitting for the examinations held respectively in the following June and November. Applications will, however, be accepted if they reach the Air Ministry not later than the 1st May (for the June examination) and the 1st October (for the examination in November). They should be accompanied by a full statement (which will be treated as strictly confidential) of the circumstances of the candidate's case.

8. The Air Council will decide upon the eligibility or otherwise of the candidate in the light of this statement and of any further inquiries which they may think it necessary to make of the parents or guardians concerned, who will then be notified of the Council's decision as early as possible.

9. The tenure of a scholarship will be contingent on the good behaviour of the scholar, and the Air Council will have power at their discretion to deprive a cadet of his scholarship in the event of serious misconduct. A cadet removed from the Royal Air Force (Cadet) College, for whatever reason, will automatically forfeit his scholarship from the date of his removal.

#### THE "VICTORIA LEAGUE" SCHOLARSHIP.

10. A gift of 1,500*l.* having been generously put at the disposal of the Air Council by the Orange Free State Branch of the Victoria League for the permanent use of the Royal Air Force, it has been decided to apply this sum to the endowment of a number of scholarships tenable at the Royal Air Force (Cadet) College by the South African flight cadets and to be known as "Victoria League" Scholarships.

11. All candidates for admission to the Royal Air Force (Cadet) College whose fathers are British subjects of European descent and normally resident in the Union of South Africa will be eligible to compete for these scholarships.

12. Two scholarships will be offered for competition each year, one at the examination for admission to the Royal Air Force (Cadet) College held in June and one at that held in November



13. The scholarships will be tenable for one year and will be of the annual value of approximately 35*l.* payable half-yearly in arrear in equal instalments.

14. A "Victoria League" scholarship may be held in addition to a King's Cadetship.

15. The Scholarships will be awarded by the Government of the Union of South Africa in conjunction with the scheme of nomination by the Union of South Africa (referred to in para. 39), to whom applications should be made.

16. The tenure of a scholarship will be contingent on the good behaviour of the scholar, and the Air Council will have the power at their discretion to deprive a cadet of his scholarship in the event of serious misconduct. A cadet removed from the Royal Air Force (Cadet) College, for whatever reason, will automatically forfeit his scholarship from the date of his removal.

#### THE "ABDY GERRARD FELLOWES" MEMORIAL PRIZE.

17. Mrs. D. L. Fellowes has generously undertaken to provide funds for a period of five years for the award of two prizes a year, each of the value of 10*l.*, in memory of her son, the late Captain Abdy Gerrard Fellowes.

18. It has been decided to award the prize, commencing 1921, to the flight cadet who obtains the highest total marks in the mathematics and science examinations held at the Royal Air Force (Cadet) College.

#### THE R. M. GROVES MEMORIAL PRIZE.

19. The family of the late Air Commodore Robert Marsland Groves has generously undertaken to provide funds for a period of 10 years for the provision, *inter alia*, of a prize to the cadet who, on passing out of the College, is assessed by the Commandant of the College as being the best all-round pilot of his term.

20. The prize will be awarded twice annually on the recommendation of the Commandant of the Cadet College.

21. The prize will consist of a set of bound volumes and a grant of 25*l.*, the choice of the former being left, within certain limits, to the successful candidate.

## GRANTS FROM THE "SALTING" BENEFACTION.

22. The Executive Committee of the Royal Air Force Memorial Fund are prepared to consider applications for grants from the "Salting Benefaction" in deserving cases towards the educational expenses of the sons of past or present officers of the Royal Air Force, preference being given to applicants whose fathers died in the service of their country.

Intending candidates for entry to the Royal Air Force (Cadet) College who may be qualified to receive assistance from this fund should apply to the Secretary, Royal Air Force Memorial Fund, 7, Idlesleigh House, Caxton Street, S.W.1.

